

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-086745

(43)Date of publication of application : 30.03.2001

(51)Int.Cl.

H02M 3/28

G05F 1/10

G05F 1/67

H02J 1/00

(21)Application number : 11-260110

(71)Applicant : MATSUSHITA ELECTRIC IND CO  
LTD

(22)Date of filing : 14.09.1999

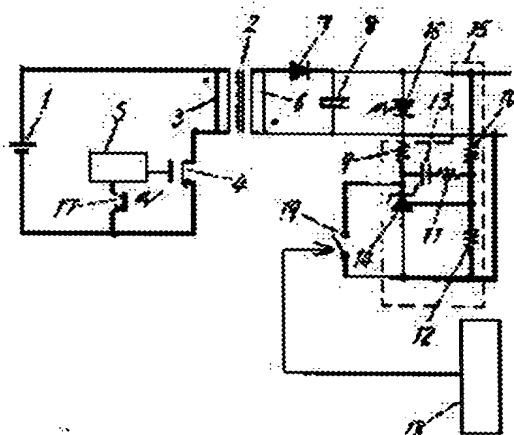
(72)Inventor : MURAKAMI TAKAHARU

## (54) SWITCHING POWER-SUPPLY UNIT

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain a switching power-supply unit which is effective, when cutting off an output voltage or achieving a standby state for reducing an input voltage.

**SOLUTION:** By forcing a photocoupler 16 provided for stabilizing the output voltage of a converter to emit light, the on-period of a primary-side switching element 4 can be narrowed, thus performing stopping and standby with an extremely small amount of power consumption, without adding special control ICs or photocouplers.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision]

decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office